BookletChartTM

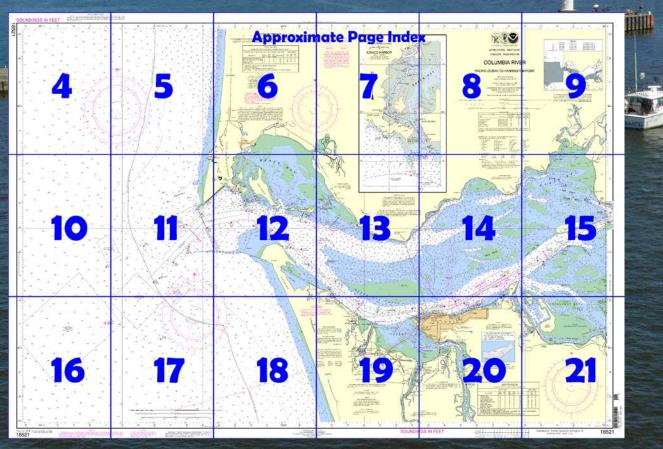
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Columbia River – Pacific Ocean to Harrington Point NOAA Chart 18521

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

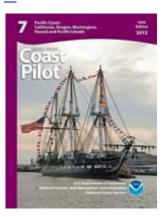
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=185 <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbychar



(Selected Excerpts from Coast Pilot)
Reports of Oil Spills and Vessel

Emergencies.—All vessels must report oil spills or potential oil spills to both Washington State (800-258-5990) and National Response Center (800-424-8802).

Washington State Vessel
Inspections.—The Washington State
Department of Ecology regulates cargo
and passenger vessels and tank vessels
operating in Washington waters. (See

Oil Transfer Requirements.-Safe

Coast Pilot 7, chapter 10.)

bunkering procedures must be followed during fueling operations. For vessels 300 gross tons or greater, Washington State Ecology inspectors

may conduct **inspections** of these regulated oil transfers on vessels receiving fuel within Washington waters. Details can be found in state regulations at Washington Administrative Code (WAC) 317-40.

Tank vessels delivering oil in bulk to a non-recreational vessel or facility within Washington waters must meet state oil transfer requirements. They may also be subject to Washington State oil transfer inspections for these regulated oil transfers. Details can be found in WAC 173-184. For a transfer of over 100 gallons of bulk oil to a facility or nonrecreational vessel, the delivering vessel must submit an Advance Notice of Transfer (ANT) report. The ANT must be submitted 24 hours prior to the transfer for facilities or within the timeframe required by local USCG Captain of the Port. The ANT report can be made online (https://secureaccess.wa.gov/ecy/ants), by fax (360-407-7288 or 800-664-9184), or by e-mail (Oil-TransferNotifications@ecy.wa.gov). Contingency Plan Requirements.—Tank vessels and cargo and passenger ships 300 gross tons or larger transiting Washington waters must either have a Washington State Department of Ecology approved oil spill contingency plan or be a member of a non-profit corporation that provides oil spill response capabilities consistent with their Washington State approved contingency plan. Additional information is available at http://www.ecy.wa.gov/programs/spills/spills.html.

Caution.—The volcanic eruptions of Mount Saint Helens in mid-1980 caused extensive flooding with resulting heavy siltation in the lower Columbia River. Mariners are advised to use caution in the Columbia River and its tributaries. Mariners should contact any hopper dredges, dredge barges and pipeline dredges encountered on VHF-FM channel 13 to make passing arrangements; navigate with due caution.

Caution.—The Columbia River bar is reported to be very dangerous because of sudden and unpredictable changes in the currents often accompanied by breakers.

In the entrance the currents are variable, and at times reach a velocity of over 5 knots on the ebb; on the flood they seldom exceed 4 knots. The current velocity is 3.5 knots, but this tidal current is always modified both as to velocity and time of slack water by the river discharge. Free floating logs and submerged deadheads or sinkers are a constant source of danger in the Columbia and Willamette Rivers. The danger is increased during spring freshets. **Deadheads** or **sinkers** are logs which have become adrift from rafts or booms.

Pilotage, Columbia River and Bar.—Pilotage across the Columbia River bar and up or down the river is compulsory for U.S. vessels enrolled or sailing under Registry and all foreign vessels, except foreign recreational or fishing vessels not more than 100 feet in length or 250 gross tons. Embarking and disembarking Columbia River Bar Pilots is accomplished by helicopter or boat. All vessels are required to contact Columbia River Bar Pilots via VHF channel 9, 13, or 16 at least two hours before their ETA. The call sign for the Bar Pilot office is KOK-360. At that time vessels will be advised of pilot boarding instructions. The primary method of pilot boarding is by helicopter. Vessels should not approach the CR buoy until advised by a pilot. While awaiting a pilot boarding by helicopter or pilot boat, vessels should stay within a marshaling area approximately 5 miles west of the CR buoy.

HELICOPTER TRANSFER PROCEDURES (see Coast Pilot 7, page 436)When the fixed amber light atop the pilot office at Astoria is exhibited, it will inform outward bound vessels that desire a bar pilot that the bar is not passable and that the vessel should remain in port.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Seattle Commander

13th CG District Seattle, WA (206) 220-7001

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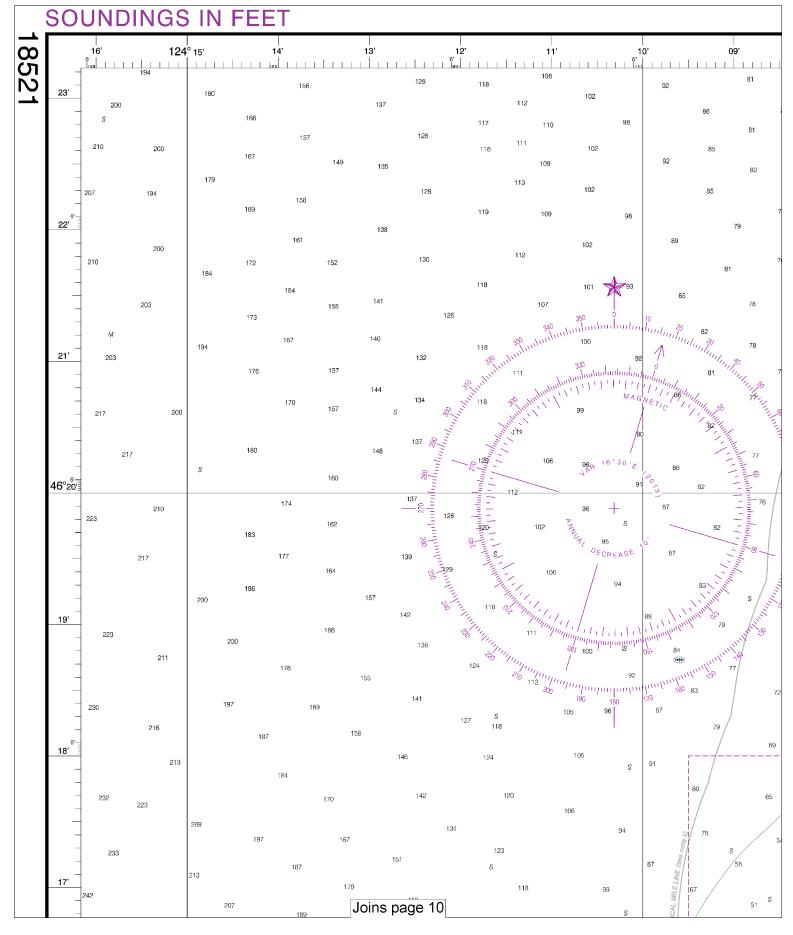
NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*. To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

Lateral System As Seen Entering From Seaward on navigable waters except Western Rivers





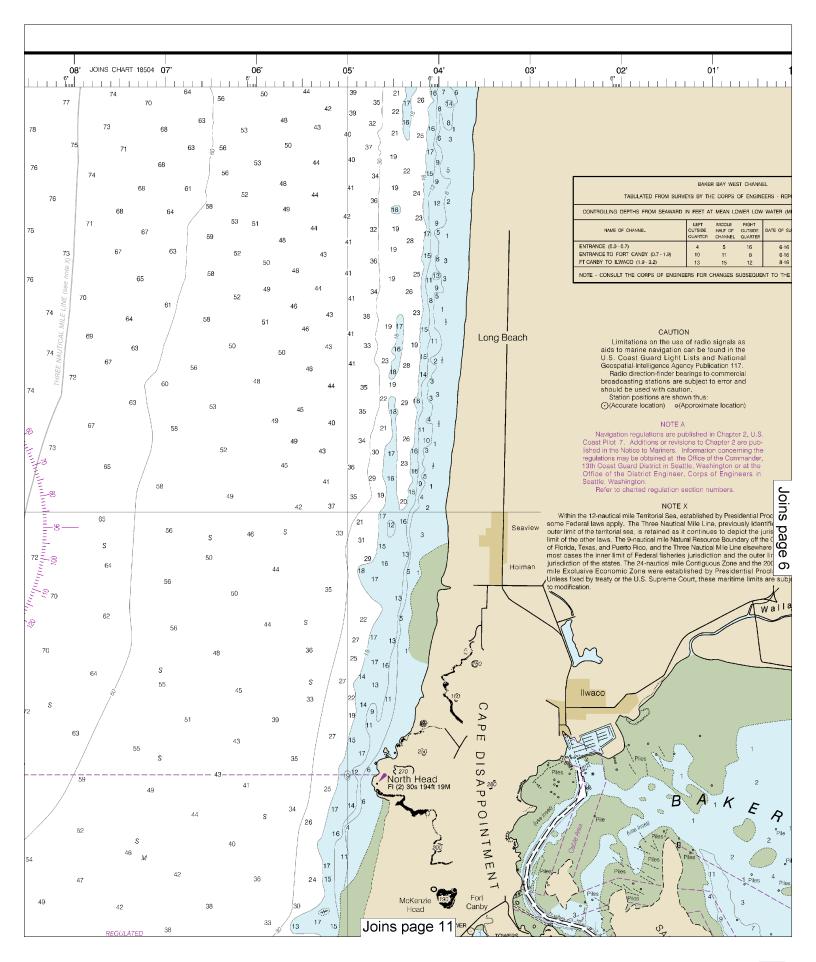
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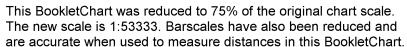
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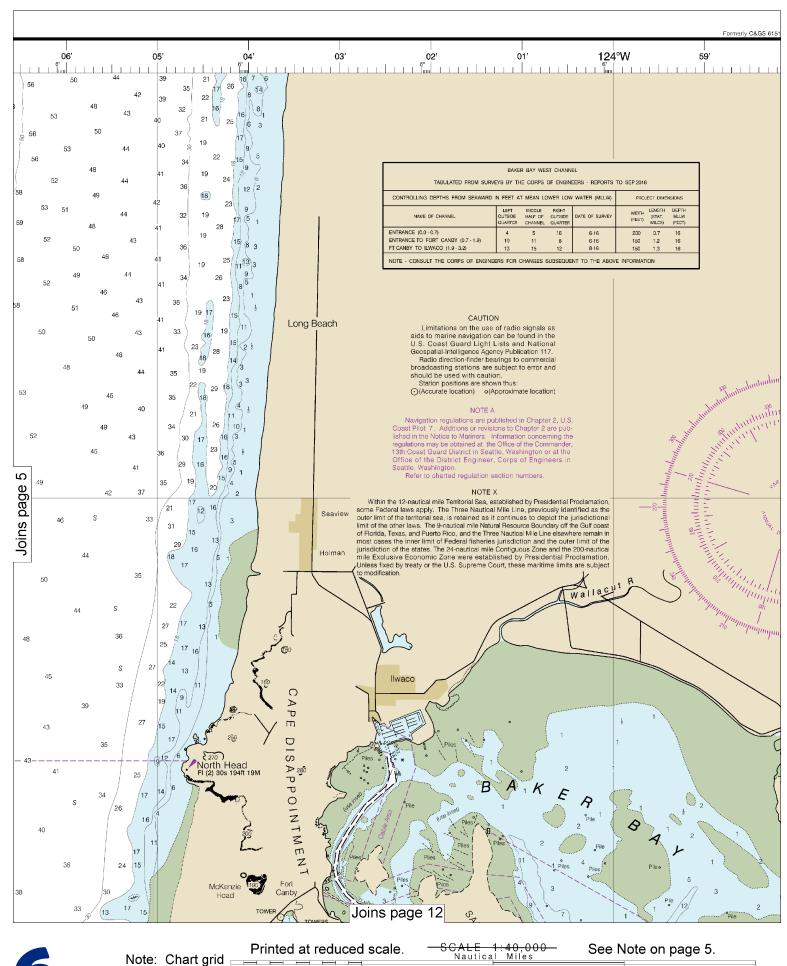
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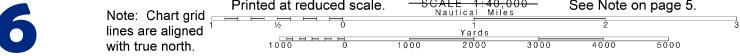
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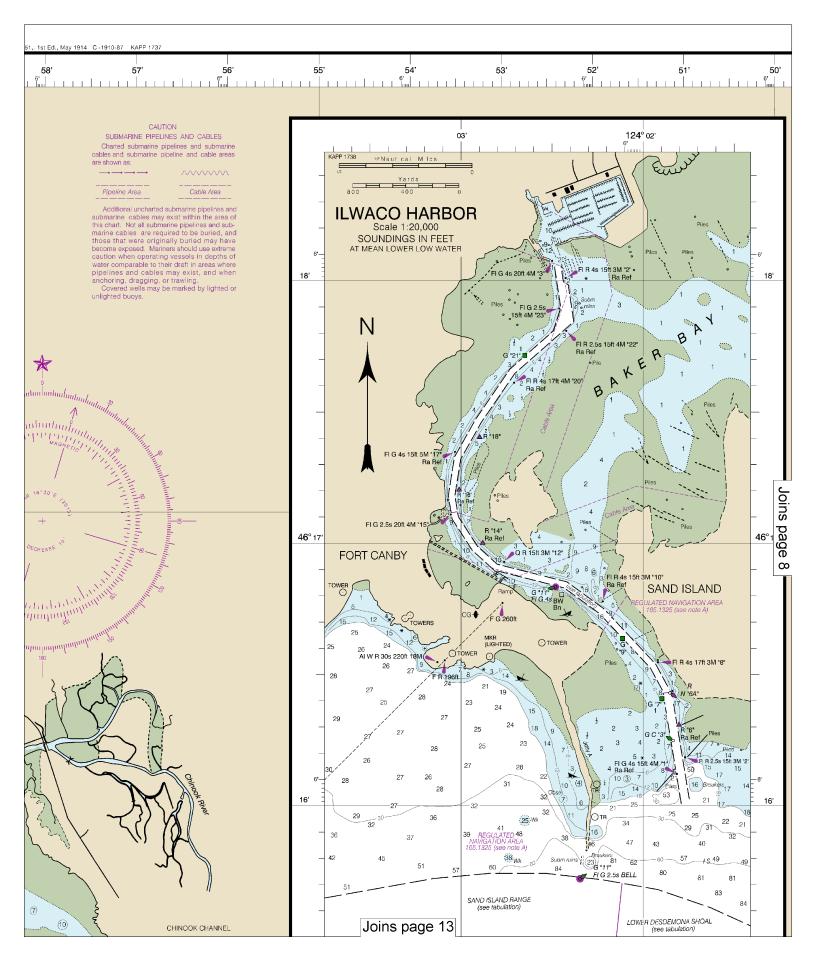
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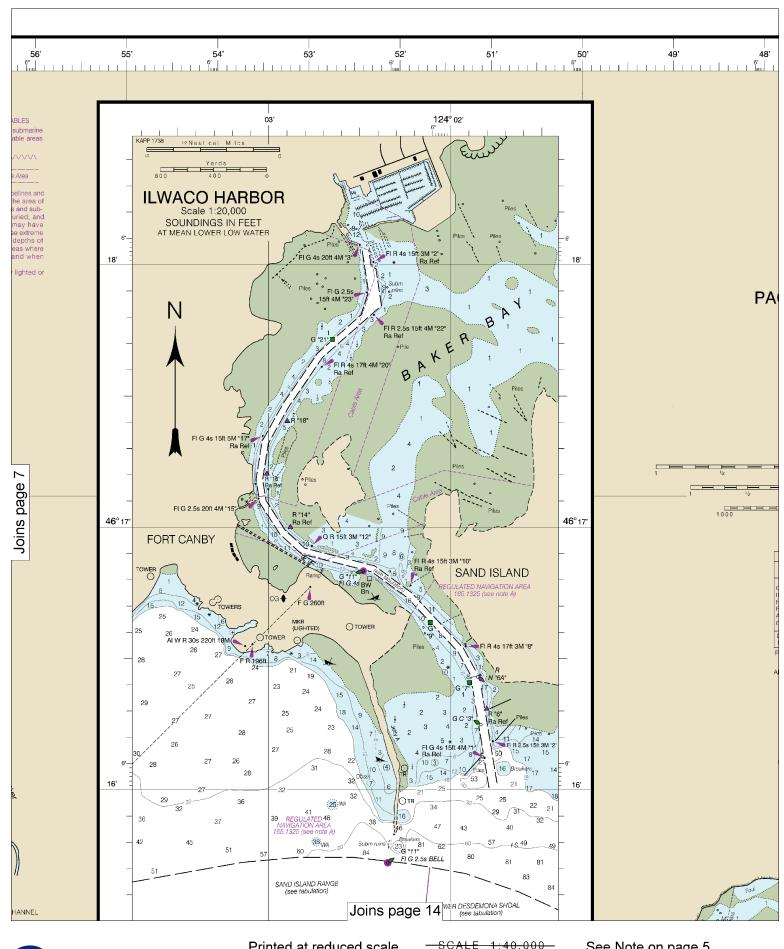














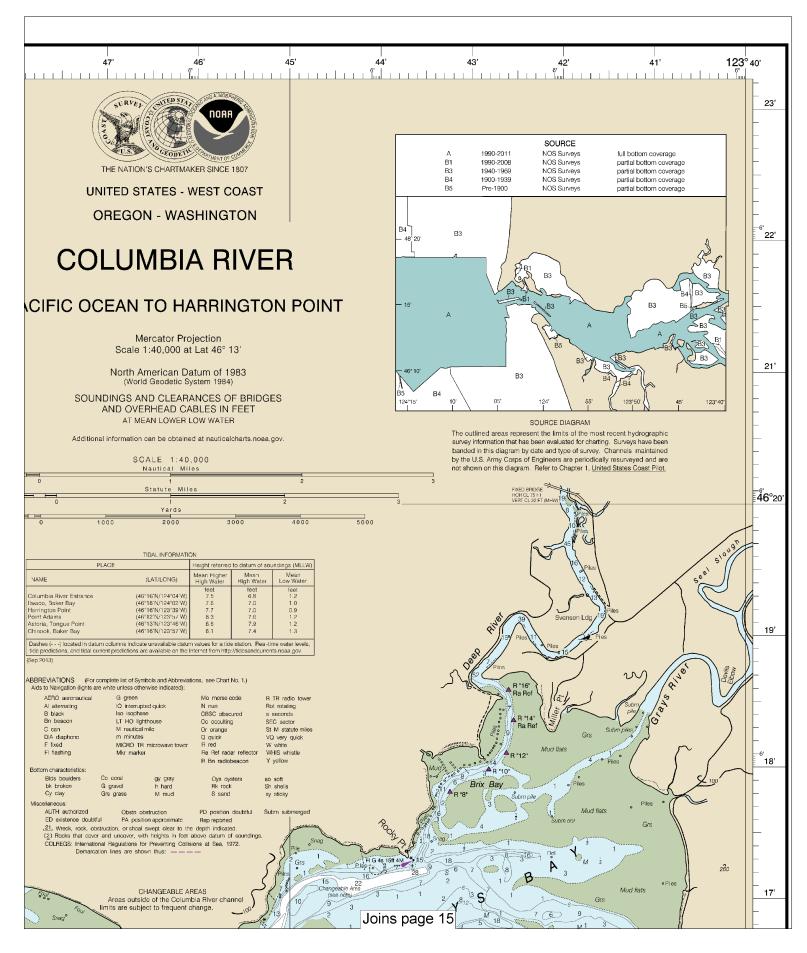
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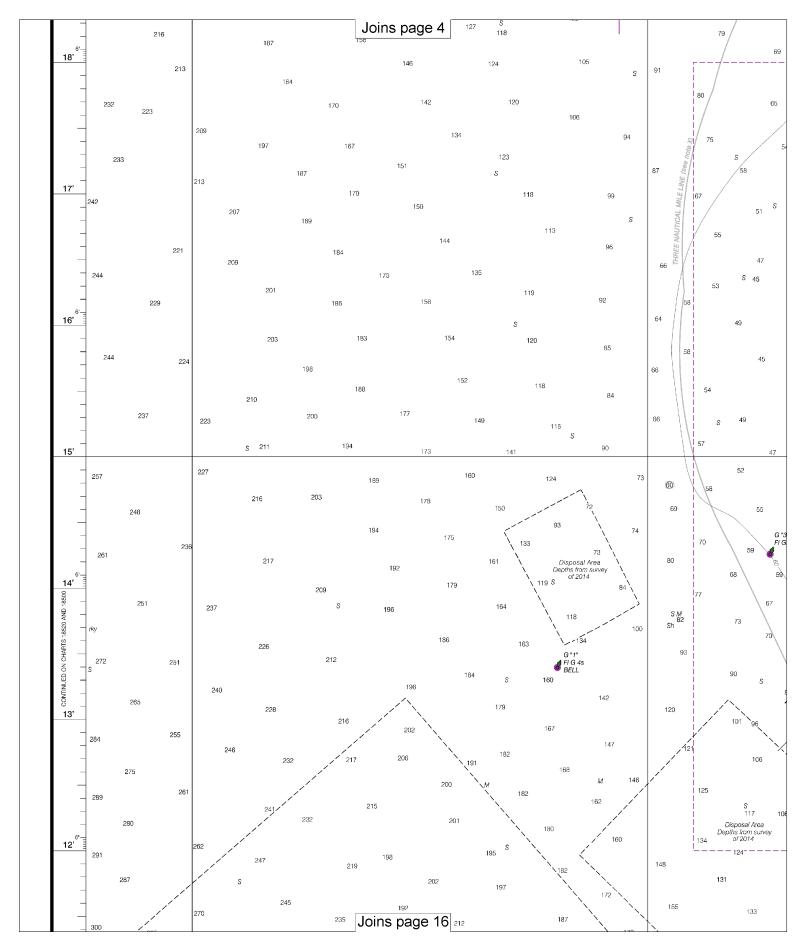
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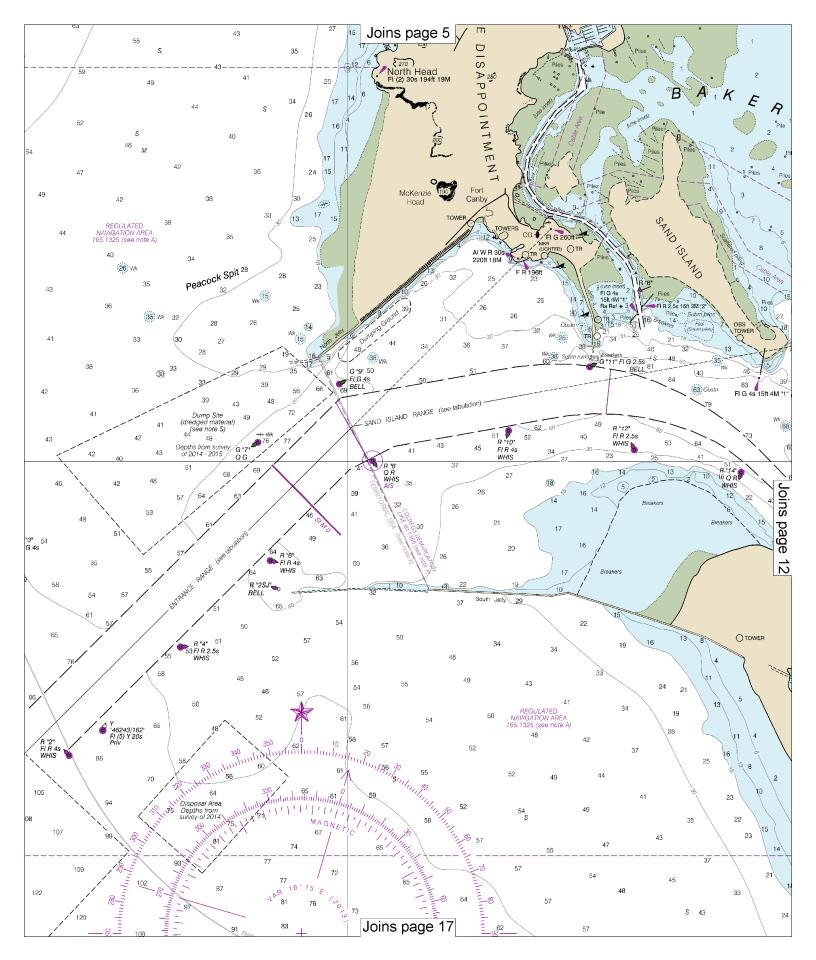
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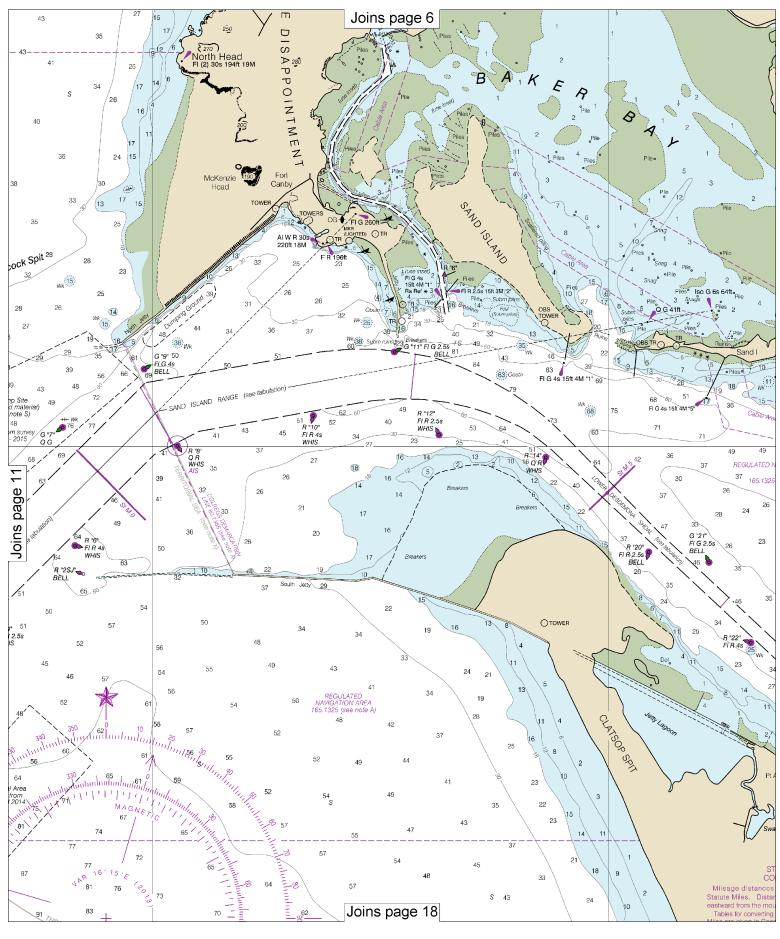
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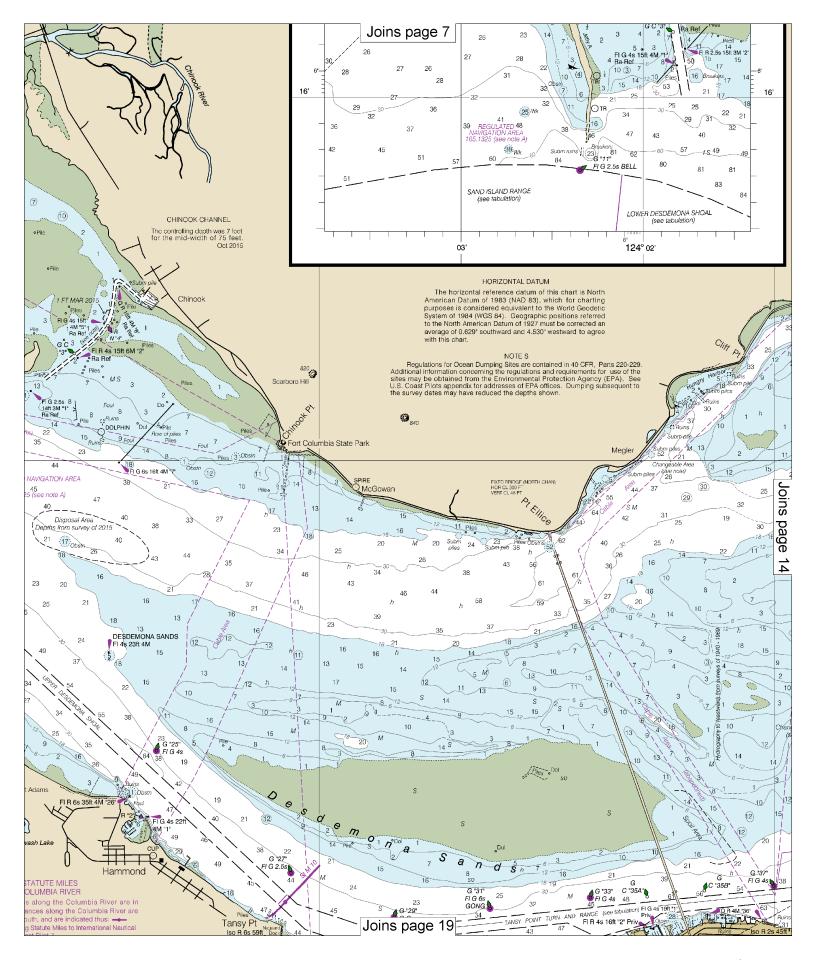
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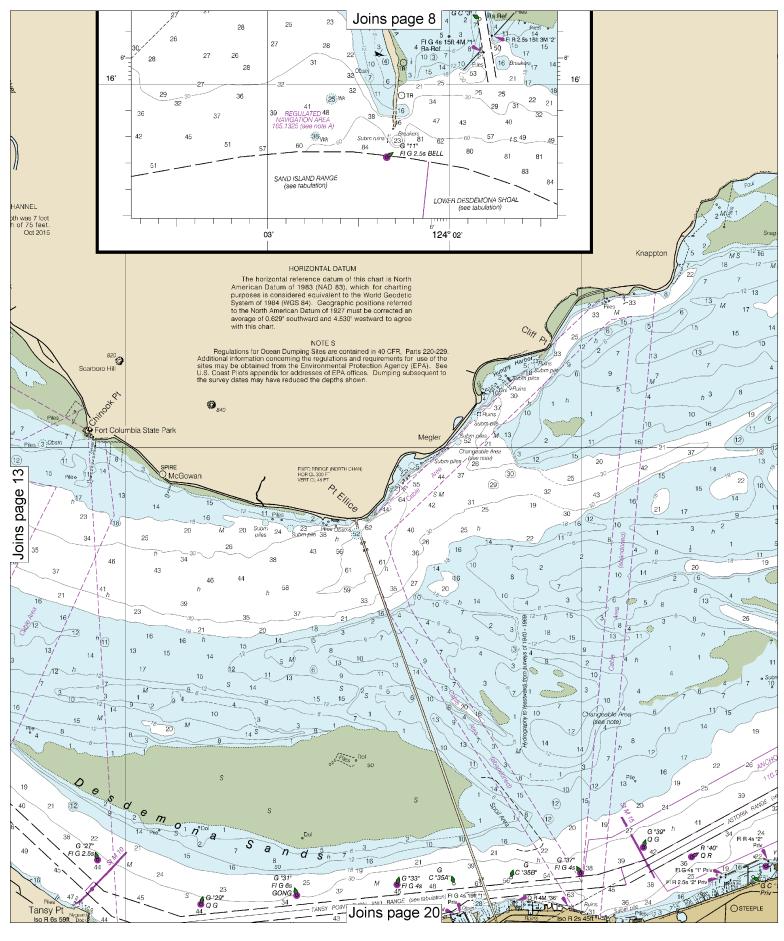




Note: Chart grid lines are aligned with true north.







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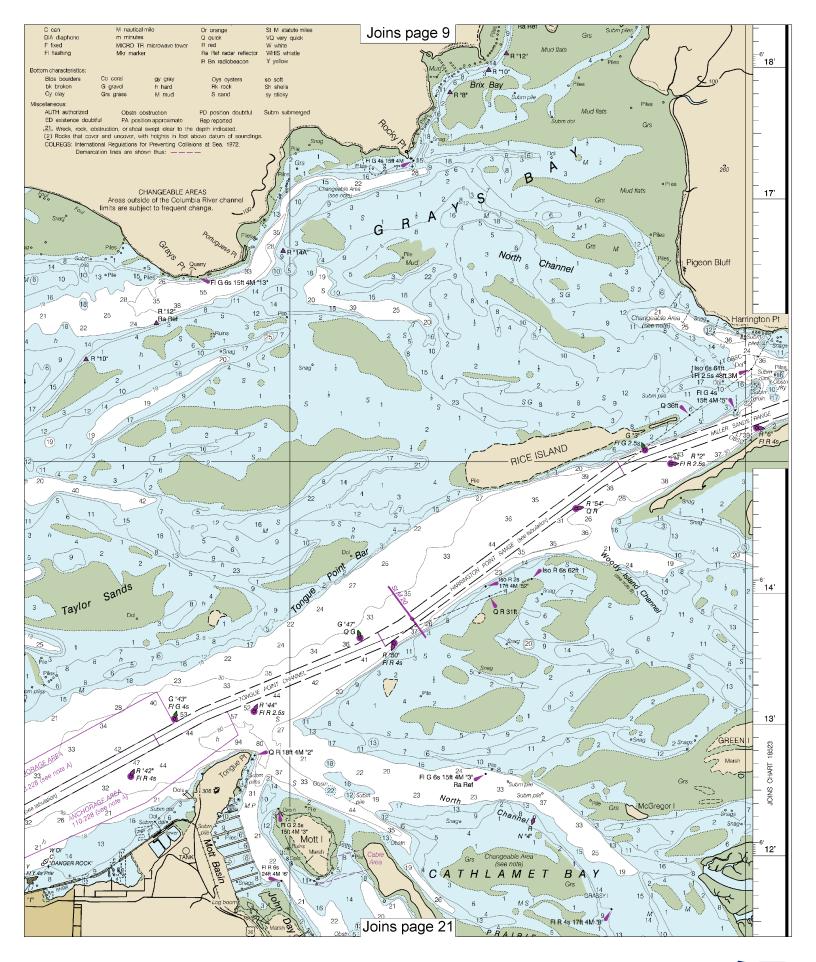
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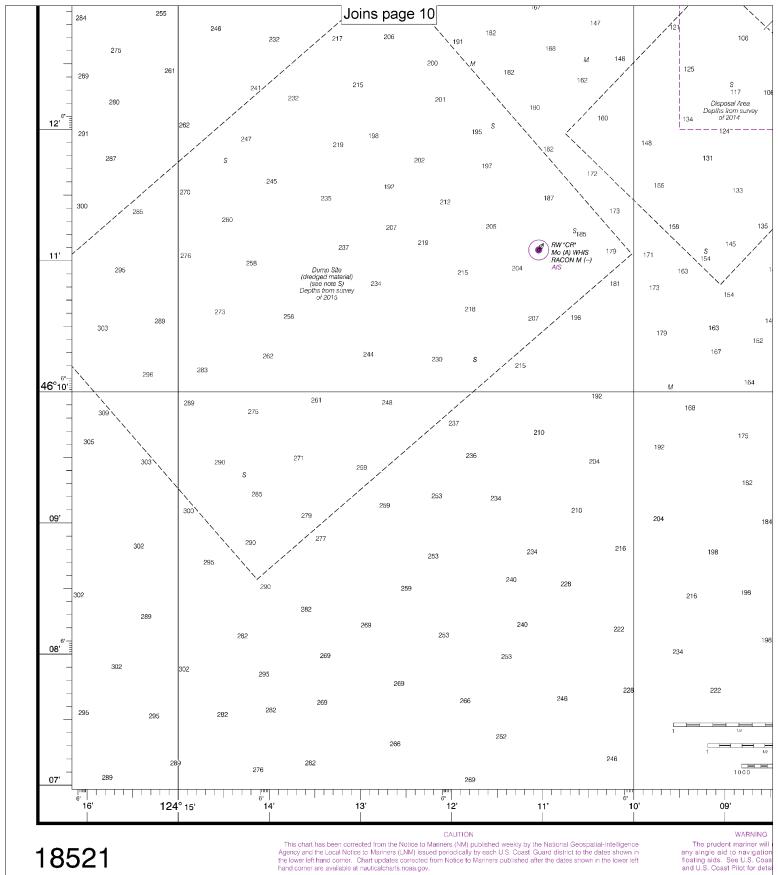
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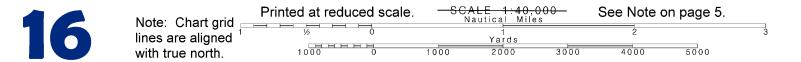
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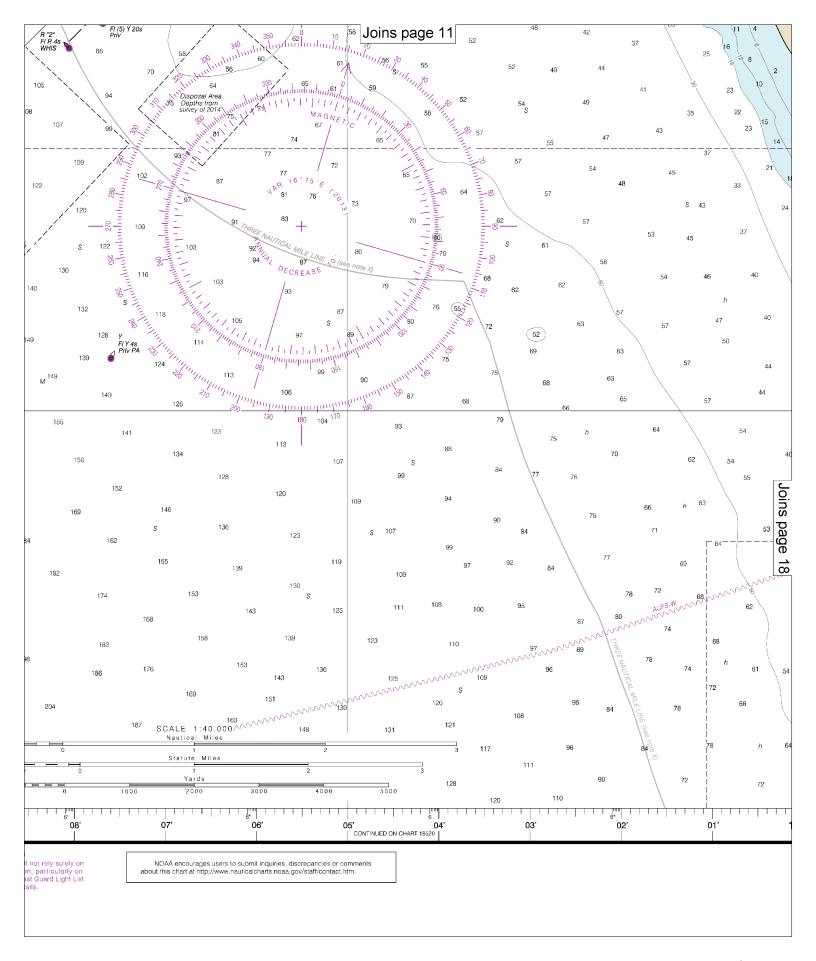
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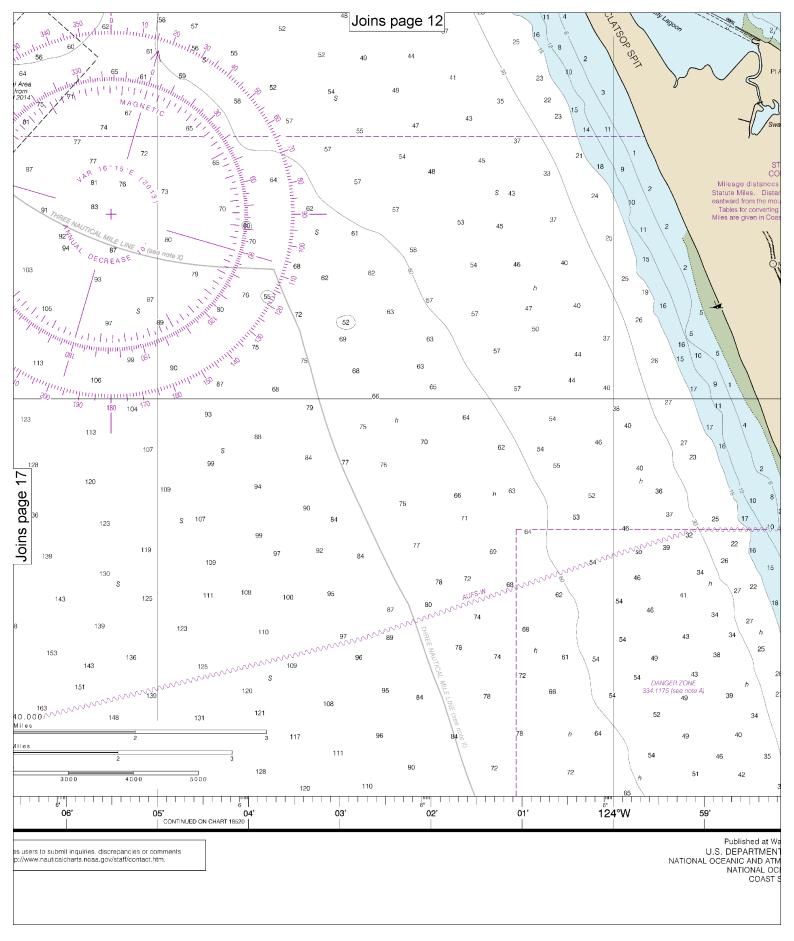




75th Ed., Nov. 2013. Last Correction: 12/7/2016. Cleared through: LNM: 4916 (12/6/2016), NM: 5016 (12/10/2016), CHS: 1116 (11/25/2016)







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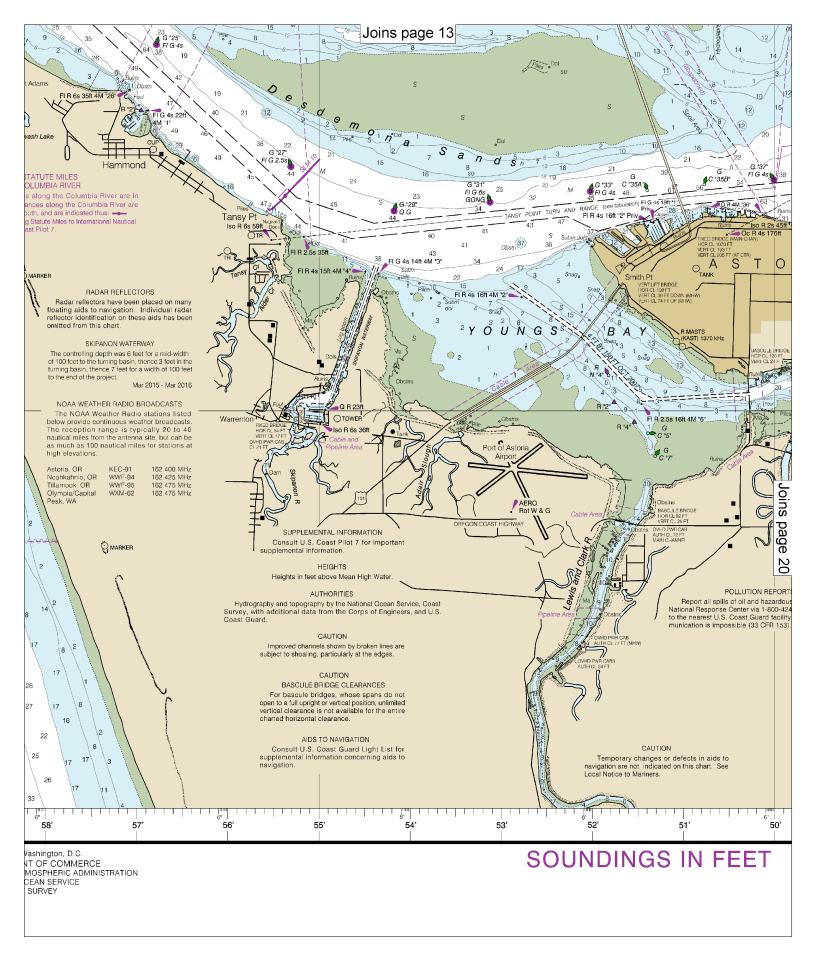
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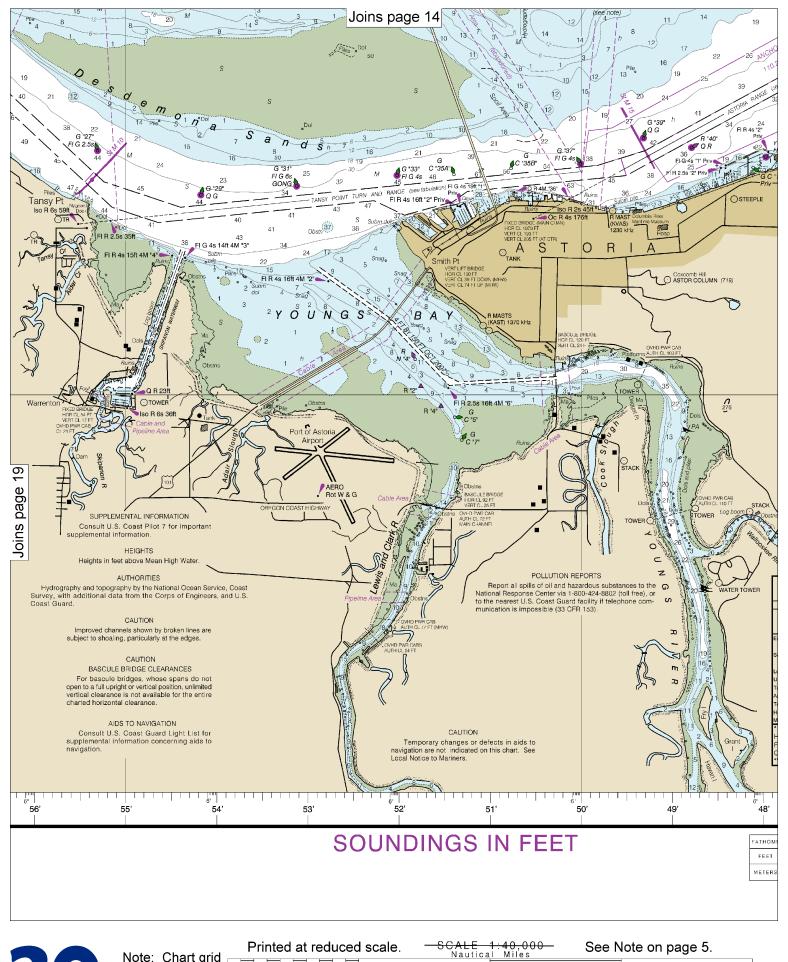
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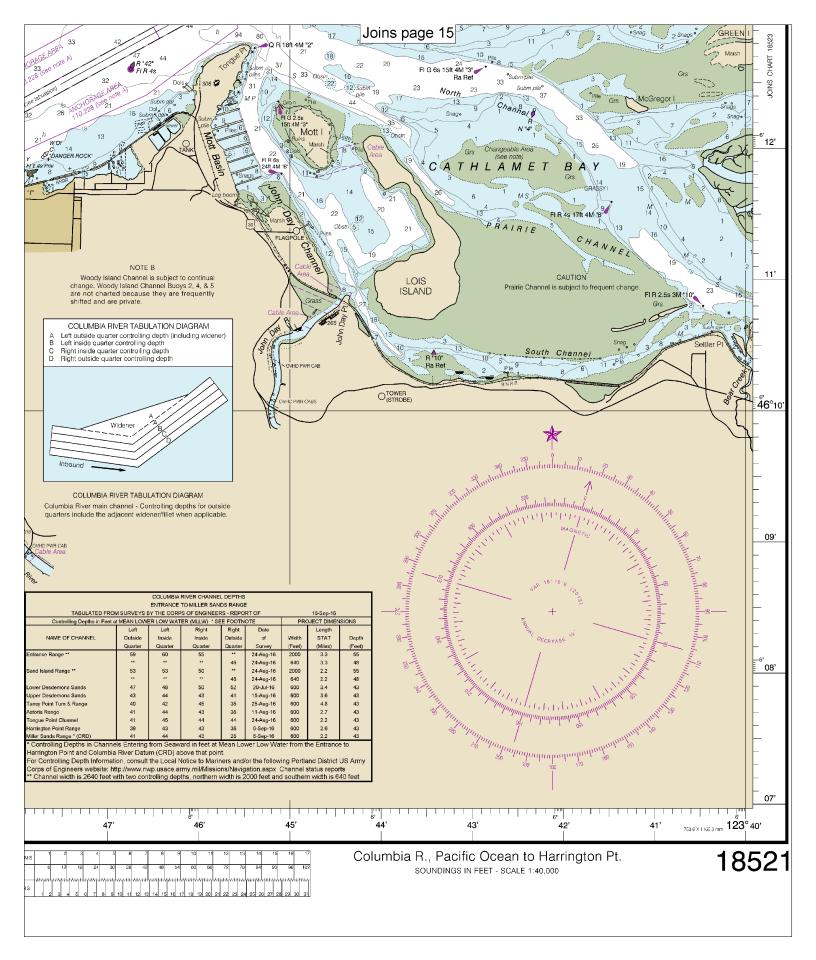
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VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Interactive chart catalog — http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.